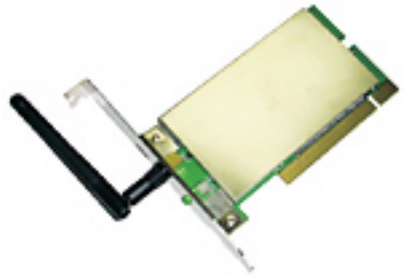
WL-GI-600XA

54Mbps Wireless PCI Card



INTRODUCTION

This highly efficient 54Mbps Wireless PCI Card is designed to meet the needs of those wireless users who connect to 2.4GHz standard wireless networking devices. With the Dual-Standard capability, this Wireless Network PCI automatically switches to the modulation methods i.e. OFDM, CCK and so on, supported by one of the two standards, IEEE 802.11b or IEEE 802.11g, which the corresponding wireless networking device is using. The WL-GI-600XA offers unbeatable performance of data rates up to 54 Mbps for 802.11 g and 11 Mbps for 802.11b, while maintaining wide range of area coverage. Wireless network security is protected with standard WEP encryption and Wi-Fi Protected Access (WPA), and further enhanced with 802.1x authentication security. With drivers and utility available for most commonly used Windows OS including Windows XP, the setup and installation can be easily managed. Alternate external antenna kit model is also available combine with Soft AP utility developed by GST to turn the Wireless PCI device into a fully operational Access Point. The WL-GI-600XA is a truly solid-design networking device that provides you with the ultimate freedom of wireless networking – anytime, anywhere.

FEATURES

- Fully IEEE 802.11g and 802.11b standards compliant.
- Highly efficient design mechanism to provide unbeatable performance achieving data rate up to 54 Mbps for 802.11g and 11 Mbps for 802.11b with wide range coverage.
- Strong network security with 802.1x, Wi-Fi Protected Access (WPA) and WEP encryption.
- Auto-switch between the two standards IEEE 802.11b and g that the corresponding networking device is using.
- Soft AP utility to provide full operational Access Point functionalities.
- Driver/Utility supports most commonly used operating systems including Windows
- 98SE/ME/NT/2000/XP and Linux.

PRODUCT SPECIFICATION

Standards	Wireless: IEEE 802.11b, 802.11g PCI Standard v2.2
Data Rate	802.11g: Up to 54mbps (6/9/12/18/24/36/48/54) 802.11b: Up to 11Mbps (1/2/5.5/11)
Interface	PCI Standard v2.2
Antenna Type	Single Dipole Antenna, 1.5dBi gain
Chipset	Radio: AR2111 + AR5111 MAC/BBP: AR5212
LED	Steady for Power on, Blink for WLAN Link/Act.
Emission Type	DSSS
RF Frequency	2412 ~ 2462 MHz (North America) 2412 ~ 2472 MHz (General Europe) 2412 ~ 2484 MHz (Japan)
Opt. Channel	1 ~ 11 channels (North America) 1 ~ 13 channels (General Europe) 1 ~ 14 channels (Japan)
Output power	16 – 18 dbm (typical)
Sensitivity for 802.11b	1, 2 Mbps (BPSK): - 90 dBm 5.5 Mbps (QPSK): - 86 dBm 11 Mbps (CCK): -82 dBm (typically @PER < 8% packet size 1024 and @25ºC + 5ºC)
Sensitivity for 802.11g	54 Mbps: -72 dbm 48 Mbps: -72 dbm 36 Mbps: -76 dbm 24 Mbps: -79 dbm 18 Mbps: -82 dbm 12 Mbps: -86 dbm 9 Mbps: -89 dbm 6 Mbps: -90 dbm (typically @PER < 8% packet size 1024 and @25ºC + 5ºC)
Frequency Stability	Within +25 ppm
Data Modulation Type	BPSK, QPSK, CCK and OFDM (BPSK/QPSK/16-QAM/ 64-QAM)
Power	3.3 / 5 Volt + 5%
Network	Auto-switch to use 802.11g or 802.11b mode Supports Ad-Hoc, Infrastructure WLAN network Wireless roaming Data rate auto fall-back under noisy environment or longer range distance Site Survey with Profile function
Security	WEP 64/128 802.1x security (MD5 and TLS) in Windows XP Wi-Fi Protected Access (TBD)
Configuration & Management	Management Utility supports Win98SE/ME/2000 and XP
SoftAP (available with External Antenna kit model)	Supports Windows 2000/XP and Linux Open/Share Authentication and WEP encryption 802.1x authentication security (EAP-MD5 and TLS) DHCP Server/Client and IP setting Packet filtering (MAC address and Port) SSID Broadcast enable/disable function
Regulation Compliant	**Wireless:** Wi-Fi. **US:** FCC part 15 class B, Sec. 15.247, 15.109 **Europe:** - ETS 300 328, ETS 301 489-1&17, and CE mark; - EN 60950, EN 55022 Class B, EN 50082-1 1998 **Other:** VCCI, Telec/JATE (Japan)
Operating Temp.	0ºC ~ 55ºC
Storage Temp.	-20ºC ~ 65ºC
Humidity	5% ~ 95% non-condensing

Dynamode